

Early Release Introductory Set (ERIS)

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Packet 2

Tossups:

1. **A painting by J. M. W. Turner depicts one of these objects on a bridge and is titled *Rain, Steam, and Speed*. The American businessman Ratchett is murdered on one of these vehicles in the Agatha Christie novel *Murder on the Orient (*) Express*. The island of Sodor is home to Thomas, a sentient blue one of, for 10 points, what vehicles which run on rails and carry passengers?**

ANSWER: railroad trains [or locomotives or steam engines or tank engines or sleepers or any other obvious equivalents] <Ganeshan, Miscellaneous>

2. **Downdrafts near the rear flank of one of these phenomena create a distinctive "hook echo" on Doppler radar. These phenomena regularly develop from mesocyclones of supercells, and the (*) Fujita scale quantifies their strength on a numerical scale from F0 to F5. For 10 points, name these funnel-shaped columns of air that can cause substantial property destruction when they touch down.**

ANSWER: tornadoes [prompt on twisters or cyclones; prompt on supercells before mentioned by asking, "What phenomena accompany such storms?"] <Karpov, Science>

3. **Ironically, violence escalated in this country after a president gave a speech about it under a "Mission Accomplished" banner. Because of tensions over oil, this country invaded its neighbor to begin the First Gulf War. In 1980 this country invaded (*) Iran under the leadership of Saddam Hussein. The terrorist group ISIS is named for Syria and, for 10 points, what country led from Baghdad?**

ANSWER: Republic of Iraq <Kher, History>

4. **This author wrote a legendarily unreadable stream-of-consciousness novel which begins with the final word of the final sentence, "riverrun". A novel by this author ends with a lengthy soliloquy which ends when Molly declares "yes I said yes I will yes". This author of *Finnegans Wake* depicted Stephen Daedalus and Leopold (*) Bloom in another book. For 10 points, what Irish author wrote *Ulysses*?**

ANSWER: James [Augustine Aloysius] Joyce <Tang, Literature>

5. **Scrolls containing this text are produced by scribes called *soferim* and are read from every week using a pointer called a *yad* to avoid touching them. This text is usually stored in an ark and removed for (*) synagogue services. The Five Books of Moses comprise, for 10 points, what Jewish scripture analogous to the first five books of the Old Testament?**

ANSWER: the Torah [prompt on the Pentateuch; prompt on the Hebrew Bible but do NOT accept or prompt on just the Bible] <Sarma, Religion>

6. **Players defend Odin City in a tower defense game whose title begins with this word. A creature with this name in another video game was created when its developer incorrectly set the dimensions of a pig. In one song parody, the singer declares (*) "aw man" after saying the name of, for 10 points, what green monsters from *Minecraft* which explode on proximity to the player?**

ANSWER: creepers <Karpov, Popular Culture>

7. **This quantity does not change for adiabatic processes. If a system reaches maximum entropy, that system experiences a "death" named for this kind of energy. Exothermic reactions generate this type of energy, which can be transferred by (*) radiation, convection, and conduction. For 10 points, name this type of energy, more of which is possessed by objects with a higher temperature.**

ANSWER: heat [accept thermal energy; prompt on energy, prompt on temperature until mentioned] <Karpov, Science>

8. **This artist excluded shadows from his painting *Bedroom in Arles*. This artist painted numerous self-portraits, including one "With Bandaged Ear", depicting the aftermath of his (*) cutting his ear off. A cypress tree juts into the left side of one famous painting by this artist, which also features a swirling sky above the village of Saint-Remy. For 10 points, name this Dutch artist of *Starry Night*.**

ANSWER: Vincent van Gogh <Sarma, Fine Arts>

9. **According to one myth from this country, there were originally ten suns, but nine of them were shot out of the sky by the archer Houyi. This country's traditional folklore features legendary figures called the Eight Immortals and a deity known as the (*) Jade Emperor. Chang'e is the moon goddess of, for 10 points, what country whose mythology was influenced by Confucianism and Taoism?**

ANSWER: China [or Zhongguo] <Gollamudi, Mythology>

10. **These structures primarily consist of mineralized collagen, and the ears contain three of these objects to conduct sound. New blood cells are produced inside these structures. These structures are weakened in (*) osteoporosis, and their interior contains marrow. The femur is the largest of, for 10 points, what hard objects which make up the skeleton?**

ANSWER: bones <Dahal, Science>

11. **The Kahama chimpanzee community was disbanded after chimpanzees in Gombe National Park engaged in this activity, which was documented by Jane Goodall. The Chinese strategist Sun Tzu wrote a book about the (*) "Art" of this activity. The Geneva Convention established laws governing, for 10 points, what activity in which large groups or nations engage in armed conflict?**

ANSWER: war [or warfare; accept synonyms such as fighting, combat, violence, etc. until "Art" is read and prompt afterwards; accept *The Art of War*; accept the Gombe Chimpanzee War] <McAvoy-Bickford, Social Science>

12. **One symbol of a 1956 revolution in this country was its flag with a hole cut out of the middle; after that revolution failed it was led by János Kadar (YAH-nosh KAH-dar), a proponent of "goulash communism", named for a popular national dish. This country once formed a dual monarchy with (*) Austria, its western neighbor. For 10 points, name this country now led by Viktor Orbán from Budapest.**

ANSWER: Hungary [or Magyarország] <Young, History>

13. **Only numbers congruent to 1 or 5 mod 6 can have this property. Numbers of this type which are one less than a power of two are named for Mersenne. According to the fundamental theorem of arithmetic, every positive integer can be expressed uniquely as a (*) product of these numbers.** The Sieve of Eratosthenes can be used to find, for 10 points, what numbers only divisible by one and themselves?

ANSWER: **prime** numbers <Karpov, Mathematics>

14. **Poems from this country include the Acmeist "Requiem" and one in which the title character duels Lensky for the love of Tatyana. In addition to *Eugene Onegin*, another work from this country stars Ivan, Alyosha, and Dmitri, the title *Brothers* (*) Karamazov. Raskolnikov commits murder in *Crime and Punishment*, a work from, for 10 points, what country, where it is set in St. Petersburg?**

ANSWER: **Russia** [or **Rossiya**; accept the **Soviet Union**, or the **USSR**, or the **Union of Soviet Socialist Republics**, or the **Sovetsky Soyuz**, or the **Soyuz Sovetskikh Sotsialisticheskikh Respublik**, or the **SSSR** or **CCCP**] <Young, Literature>

15. **This country's Dodecanese island group actually consists of fifteen islands. In ancient times, ships were dragged over an isthmus in this country using a road called the Diolkos. Many migrants to Europe try to reach this country's islands of Kos and Lesbos. (*) Rhodes and Crete are islands in this country, whose capital contains the Parthenon. For 10 points, what country is led from Athens?**

ANSWER: **Greece** [or the **Hellenic** Republic or **Hellas** or **Ellada** or **Ellinikí Dimokratía**] <McAvoy-Bickford, Geography>

16. **Horace Hunley developed one of these vehicles for the Confederacy, but it went down three times, the second of which killed Hunley himself. A Soviet one of these vehicles, *K-129*, was salvaged by the CIA after it sank. In 1915, the RMS (*) *Lusitania* was sunk by one of these vehicles, which the Germans called U-boats. Periscopes are used by, for 10 points, what naval vessels which can travel underwater?**

ANSWER: **submarines** [accept **U-boats** until mentioned; prompt on **subs**; prompt on **boats** or **watercraft**; do NOT accept or prompt on "submersibles", "ships", or "warships"] <Kang, History>

17. **Dust clouds in this object create a "Zone of Avoidance" which impedes astronomers' observations of the sky beyond it. The center of this object contains the supermassive black hole Sagittarius A* ("A star"), and this (*) galaxy is orbited by the two Magellanic clouds. This galaxy is predicted to collide with Andromeda in three billion years. For 10 points, name this galaxy in which we live.**

ANSWER: **Milky Way** Galaxy <Karpov, Science>

18. **People in one of these places wore black armbands to protest the Vietnam War, causing the Supreme Court case *Tinker v. Des Moines*. The National Guard protected the Little Rock Nine as they attended one of these places. The Supreme Court reversed the (*) "separate but equal" doctrine in a case about these places. *Brown v. Board* desegregated, for 10 points, what places where students go to learn?**

ANSWER: **schools** [accept **high schools** or any other type of school; accept other descriptions of places of **education**; do not accept or prompt on "colleges" or "universities"] <Sarma, History>

19. **One poem by this author calls its title entity "fierce as a dog with tongue lapping for action". In his most famous poem, this man calls his home city "Tool maker, stacker of wheat, player with railroads, and City of the Big Shoulders". The line "The (*) fog comes in on little cat feet" was written by, for 10 points, what American poet of "Grass" and "Chicago"?**

ANSWER: Carl [August] **Sandburg** <Farra, Literature>

20. **This state's northwest is home to Shiprock, an eroded volcanic plug held sacred by the region's native population. The White Sands National Monument lies in the southern part of this state, between the cities of Alamogordo and Las Cruces. It's not Nevada, but this state's city of (*) Roswell is associated with an alleged UFO. For 10 points, name this Southwestern state whose capital is Santa Fe.**

ANSWER: **New Mexico** <Stewart, Geography>

Bonuses:

1. This religion's only North American House of Worship is located in the Chicago suburb of Wilmette, Illinois. For 10 points each:

[10] Name this religion founded by Baha'u'llah which is based from the Universal House of Justice. This religion believes in the equal validity of all other faiths and is symbolized by a nine pointed star.

ANSWER: **Bahá'í** faith

[10] The aforementioned Universal House of Justice is located on Mount Carmel in this country's city of Haifa.

ANSWER: State of **Israel** [or Medinat **Yisra'el**]

[10] Bahá'ís must do the "obligatory" type of this religious action once a day. Muslims perform this action five times a day at specified times, which are called out by a muezzin.

ANSWER: **prayers** <Young, Religion>

2. Rain, rain, go away, come again another day so some kids can answer some questions about you. For 10 points each:

[10] The rain-shadow effect results in very dry regions on one side of these large geographical formations. These landforms block the movement of moisture-containing clouds over them; American examples include the Sierra Nevada and the Rockies.

ANSWER: **mountains** [or **mountain ranges**]

[10] South Asia experiences an extremely rainy season during the middle of the year, which is given this name, which also refers to seasonal winds which blow moisture from the ocean to the Indian subcontinent.

ANSWER: **monsoon**

[10] This regularly-occurring phenomenon can cause wet, rainy weather in the southern United States, along with dry, warm weather in Southeast Asia. Its most obvious sign is a horizontal band of warm Pacific ocean water.

ANSWER: **El Niño** [prompt on the Southern Oscillation or the ENSO by asking "which phase of the oscillation?"] <Sethi, Science>

3. For 10 points each, answer these questions about the attempted and successful killings of civil rights activists by the US government:

[10] At the behest of the FBI, this city's police department drugged young black activist Fred Hampton and shot him 99 times in his sleep. More recently, this city's police department has come under fire for running an extrajudicial "black site" at Homan Square.

ANSWER: **Chicago**, Illinois

[10] The Chicago Police Department falsely claimed to the media that Hampton had been killed during a chaotic gunfight with members of this civil rights activist organization named for a type of wild cat. No such gunfight occurred.

ANSWER: the **Black Panther** Party

[10] The FBI also sent this man a blackmail letter demanding that he commit suicide. This man delivered the "I Have a Dream" speech during the March on Washington.

ANSWER: Martin Luther **King** Jr. [accept **MLK**] <Singh, History>

4. In this novel, Meg Murry, Calvin and Charles Wallace discover the home of Mrs. Whatsit. For 10 points each:
[10] Name this first novel in which Mrs. Whatsit, Mrs. Who, and Mrs. Which transport Meg, Calvin and Charles through Space-Time, a novel by Madeleine L'Engle.

ANSWER: **A Wrinkle in Time**

[10] In *A Wrinkle In Time*, the characters land on the planet Camazotz where they meet this main antagonist of the novel, who kidnaps Charles Wallace.

ANSWER: **IT**

[10] Meg and Calvin's parents in *A Wrinkle in Time* both have this general occupation also held by Marie Curie and Rosalind Franklin.

ANSWER: they are **scientists** [accept specific varieties of scientists] <Gjesfeld, Literature>

5. Tofu and edamame are both made from this plant. For 10 points each:

[10] Name this nitrogen-fixing legume which is the most valuable U.S. agricultural export. A "textured vegetable product" made from this crop is a common meat substitute.

ANSWER: **soybeans** [or the **soy** plant or **soya**]

[10] This company, which has been acquired by Bayer, made a genetically modified soybean that was immune to its Roundup pesticide and the first commercial potato plants that produced the insecticide Bt.

ANSWER: **Monsanto**

[10] Soybeans are primarily grown in the U.S. in the Midwest, a region which is also noted for its production of this crop. This food can be eaten "on the cob" or processed into a namesake "high fructose syrup".

ANSWER: **corn** [or **maize**] <McAvoy-Bickford, Science>

6. This object may be referred to by a Talmudic passage discussing "a star which appears once in seventy years that makes the captains of the ships err". For 10 points each:

[10] Name this short-period comet which becomes visible from Earth once every 76 years.

ANSWER: **Halley's Comet** [accept 1P/**Halley**; accept Edmund **Halley**]

[10] This author was born in 1835, the same year Halley's Comet came, and said that he expected to go out with it. He did so, dying in 1910, after creating such characters as Tom Sawyer and Huck Finn.

ANSWER: Mark **Twain** [or Samuel [Langhorne] **Clemens**]

[10] The earliest known depiction of Halley's Comet is on the Bayeux Tapestry, which depicts this battle in which William the Conqueror defeated Harold Godwinson and cemented his conquest of England.

ANSWER: Battle of **Hastings** <Sethi, Miscellaneous>

7. In 2014, the Maine Supreme Court became the first state court in the country to establish a legal right to use these facilities in accordance with one's gender identity. For 10 points each:

[10] Identify these facilities, which trans activist Gavin Grimm also won the right to access in another state in a lawsuit against the Gloucester County school board.

ANSWER: **bathrooms** [or **restrooms** or **toilets** or other obvious equivalents]

[10] Grimm is a resident of this state, whose state legislature includes trans woman Danica Roem and which passed a namesake "Values Act" in 2020 granting sweeping legal protections to LGBT+ people.

ANSWER: **Virginia**

[10] Roem's campaign was described as "really, really boring" for focusing heavily not on her gender but on her commitment to fix this problem on Route 28, an important commuter artery in her suburban district. Among the solutions she proposed to fix this problem were fewer stoplights and more overpasses.

ANSWER: **traffic** [accept anything involving **road congestion** or **traffic jam** or anything else about **making cars go slow**] <Farra, Current Events>

8. These phenomena's frequency is the inverse of their period. For 10 points each:

[10] Name these phenomena, examples of which include those carrying light and sound. These phenomena also occur on bodies of water, where they can hurt ships if they are sufficiently large.

ANSWER: **waves**

[10] This quantity is the magnitude of the maximum displacement from the equilibrium position during an oscillation and is always positive. It effectively measures the height of waves.

ANSWER: **amplitude**

[10] When two waves collide, this phenomenon occurs. It has both "constructive" and "destructive" types and involves the waves affecting each other.

ANSWER: **interference** <Gunter, Science>

9. Gaia had many children with this deity, including a set of 6 pairs of twins. For 10 points each:

[10] Name this Greek primordial deity, father of the Titans, who was defeated by his son, Kronos. He is the personification of the sky, and is the only specifically Greek deity to have a planet named after them.

ANSWER: **Uranus** [or **Ouranos**, do not accept or prompt on "Caelus"]

[10] These fifty-headed, many-armed giants, another set of children of Ouranos and Gaia, helped the Olympians overthrow the Titans. They included Cottus, Gyges, and Briares.

ANSWER: the **Hekatonkheires** [or the **Hundred-Handed Ones** or the **Centimani**]

[10] According to Hesiod, the fight between Kronos and Ouranos led to the birth of this Greek goddess of love and beauty after Ouranos's blood dripped into the sea.

ANSWER: **Aphrodite** [do not accept or prompt on "Venus"] <Sethi, Mythology>

10. Richard Lawrence attempted to assassinate this president, but both of his pistols misfired. For 10 points each:

[10] Name this American president who issued the Specie Circular and was nicknamed 'Old Hickory'.

ANSWER: Andrew **Jackson**

[10] As president, Jackson signed the Indian Removal Act, which forcibly relocated Indian tribes to Oklahoma along this route.

ANSWER: **Trail of Tears**

[10] Jackson won this battle during the War of 1812, which occurred after the Treaty of Ghent had been signed.

ANSWER: Battle of **New Orleans** <Cui, History>

11. This ballet was first performed in 1877 in Moscow's Bolshoi Theater. For 10 points each:

[10] Name this ballet featuring Prince Siegfried and his lover Odette, who has a spell put on her by Von Rothbart, causing her to transform into one of the title birds.

ANSWER: **Swan Lake** [or **Lebedinoye ozero**]

[10] This Russian composer wrote *Swan Lake* in addition to *The Nutcracker*.

ANSWER: Pyotr Ilyich **Tchaikovsky**

[10] During the first act of *The Nutcracker*, this object grows to a massive size as mice fill the room on the stroke of midnight.

ANSWER: the **Christmas tree** [prompt on tree] <Young, Fine Arts>

12. You are very excited about quizbowl and want to talk about it online. Answer some questions about how you might go about that, for 10 points each:

[10] You might read r/quizbowl ("**R slash quizbowl**"), one of the thousands of communities on this website where posts are upvoted and downvoted, with more popular posts rising to the top.

ANSWER: **reddit.com**

[10] You might use this other communications platform for discussing quizbowl. In 2020, this company changed its motto from "Chat for Gamers" to "Your place to talk".

ANSWER: **Discord**

[10] If you actually want to *play* quizbowl online, you might use this videoconferencing software that has become widely popular during the coronavirus pandemic. After early criticism over poor digital security features, it took a 90-day break from releasing non-security features to address concerns.

ANSWER: **Zoom** <Kher, Miscellaneous>

13. Diophantine equations are those in which solutions are sought from this set. For 10 points each:

[10] Name this set of numbers, which are denoted by a double-struck Z. This set of numbers includes all of the whole numbers and their negatives.

ANSWER: **integers**

[10] This theorem concerns a general class of Diophantine equations. It states that if you know the remainders when a number is divided by several integers, you can uniquely determine the remainder when that number is divided by their product.

ANSWER: **Chinese remainder** theorem

[10] One of the most famous Diophantine equations is the subject of this French mathematician's "last theorem", which states that the equation " a to the n plus b to the n equals c to the n " has no solutions in the integers if n is greater than 2 and was finally proved by Andrew Wiles in 1995.

ANSWER: Pierre de **Fermat** [accept **Fermat's** Last Theorem] <Karpov, Mathematics>

14. This city's St. Stephen's Green contains a rock adorned with a statue of Oscar Wilde sassily reclining. For 10 points each:

[10] Name this European capital city on the River Liffey, whose other statues include one of the folk song figure Molly Malone, as well as a memorial to the victims of an 1840s potato famine.

ANSWER: **Dublin** [or Báile **Atha Cliath**]

[10] Dublin is the capital of this country, from which millions of people emigrated to the United States during the potato famine.

ANSWER: Republic of **Ireland** [or Poblacht na h**Éireann**, or **Éire**]

[10] One of these buildings on Dublin's O'Connell Street is famous for serving as the headquarters of the Easter Rising. One of these buildings in New York City is engraved with a motto beginning "neither rain nor snow nor heat nor gloom of night".

ANSWER: **post offices** [or the **General Post Office**, or **Oifig an Phoist**] <Cui, Geography>

15. This character describes Yorick as a "fellow of infinite jest" in its graveyard scene while holding up the latter's skull. For 10 points each:

[10] Identify this title character of a Shakespeare play who attempts to expose King Claudius's treachery.

ANSWER: **Hamlet**

[10] This lover of Hamlet and daughter of Polonius drowns herself in the play's 4th act. She too gives her own soliloquy after Hamlet rejects her in a fit of madness.

ANSWER: **Ophelia**

[10] *Hamlet* is an example of a Shakespearean tragedy, a genre of play contrasted with this other genre. This genre describes plays and other works intended to cause laughter or amusement, and modern performers like John Mulaney practice its "stand-up" variety.

ANSWER: **comedy** <Tang, Literature>

16. This emperor killed his mother Agrippina the Younger and his first wife Octavia and forced Seneca the Younger to commit suicide for his alleged involvement in the Pisonian Conspiracy. For 10 points each:

[10] Name this Roman emperor who was the first emperor to commit suicide, after learning that he had been sentenced to death in absentia.

ANSWER: **Nero** [accept **Nero** Claudius Caesar Augustus Germanicus, but do NOT accept Claudius, Caesar, Augustus, or Germanicus alone]

[10] After the Great Fire of Rome, Nero singled out members of this religious group for persecution.

Constantine the Great was the first emperor to convert to this religion, establishing the Roman state church which would eventually give rise to this religion's Catholic and Eastern Orthodox branches.

ANSWER: **Christianity**

[10] Under the rule of Emperor Nerva, Christianity was recognized as a separate religion by making Christians exempt from the annual tax placed on members of this other religion. This religion's holiday of Tisha B'Av commemorates the destruction of its temple by the Romans.

ANSWER: **Judaism** [or word forms like **Jewish** or **Jews**] <Cui, History>

17. This short story ends shortly after its protagonist shrieks "Villains! Dissemble no more! I admit the deed! Tear up the planks!" For 10 points each:

[10] Name this short story in which the protagonist confesses to murdering his landlord after hearing the title object beating under his floorboards.

ANSWER: "The **Tell-Tale Heart**"

[10] This American author penned "The Tell-Tale Heart." He is also known for poems such as "Annabel Lee" and "The Bells."

ANSWER: Edgar Allan **Poe**

[10] This other story by Poe takes place at a masquerade ball hosted by Prince Prospero in order to hide from the title plague. A mysterious figure dressed as a victim of the disease arrives at the ball and kills the guests in this story.

ANSWER: "The **Masque of the Red Death**" <Young, Literature>

18. An uprising in this country's city of Timișoara (**TEE-mee-shwah-rah**) eventually led to the toppling of this country's dictator. For 10 points each:

[10] Name this Eastern European country which was led by Nicolae Ceaușescu (**chow-SHESS-koo**) until 1989, when he fled its capital and was executed by firing squad.

ANSWER: **Romania**

[10] Ceaușescu was executed on this holiday. A "truce" named for this holiday occurred when British and German troops abandoned their arms to play soccer on it during World War I.

ANSWER: **Christmas**

[10] Ceaușescu banned this practice in Romania, leading to many children being abandoned. This medical procedure was the subject of the Supreme Court case *Roe v. Wade*.

ANSWER: **abortion** [do not accept or prompt on "birth control"] <Young, History>

19. This sculpture was first conceived as the centerpiece of a larger door frame. For 10 points each:

[10] Name this sculpture whose subject is sitting with his hand supporting his chin in a contemplating pose.

ANSWER: *The **Thinker*** [or ***Le Penseur***; accept *The **Poet***]

[10] *The Thinker* was created by Auguste Rodin for *The Gates of Hell*, a sculpture based off of this Italian author's *Inferno*.

ANSWER: **Dante Alighieri** [accept either underlined portion]

[10] Auguste Rodin also created this sculpture depicting six leaders of a French city that was besieged during the Hundred Years' War.

ANSWER: *The **Burghers of Calais*** [or *Les **Bourgeois de Calais***] <Tisdale, Fine Arts>

20. Approximately 10 percent of the population has a second, "accessory", copy of this organ which is much smaller than the main one. For 10 points each:

[10] Name this organ which resembles an oversized lymph node and which filters blood by destroying old red blood cells.

ANSWER: the **spleen**

[10] Many immune conditions, such as Hodgkin's disease and mononucleosis, can result in splenomegaly, a condition in which the spleen undergoes this kind of change. A description is acceptable.

ANSWER: it becomes **enlarged** [accept any answers indicating that it **swells** or **grows in size** or **gets bigger**, etc; prompt on its **size changes** or similar]

[10] The spleen lies against the wall of this digestive organ, which contains gastric acid and in which food is broken down and digested.

ANSWER: the **stomach** <Sethi, Science>